

ABSTRACT

Compositions and methods are provided whereby layered materials, electronic components and electronic products may be produced comprising a) a substrate layer; b) an active component layer that comprises an active material coupled to an adhesion promoter layer, wherein the adhesive promoter layer is selectively patterned to expose a contact area on the active material; and c) at least one additional layer. A method of producing these layered materials comprises a) providing an active material layer; b) forming an active component layer by applying an adhesion promoter layer to the active material layer; c) coating the active component layer with a photoresist material; d) patterningly exposing a portion of the photoresist material; e) removing the unexposed photoresist material from the active component layer to form a bare active component layer comprising the active material and the adhesion promoter layer and a covered active component layer comprising the active material, the adhesion promoter and the photoresist material; f) contacting the bare active component layer with a reactive solution, wherein the reactive solution removes the adhesion promoter layer from the bare active component layer to form a contact area; and g) removing any remaining photoresist material from the active component layer.